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M/KB 81/65
16 March 1965
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MEMORANDUM FOR: Chief, Forces Division, OGB**ATTENTION:**

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THROUGH:

Chief, Requirements Branch, Reconnaissance Group, OGB

FROM:

Chief, Photographic Intelligence Division, CIA

SUBJECT:

Soviet Type III A Hard ICBM Sites and Launch Area F, Plesetsk

REFERENCE:

- (a) Requirement C-RMS-82,298
- (b) CIA/PID Project 30315-5

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1. This memorandum is in response to your requirement dated 18 February 1965 which requests an examination of all Soviet Type III A hard ICBM launch sites for any differences in configuration or signature which might be indicative of the presence of the SS-9 missile system. Specifically it was requested that all sites be searched for any evidence indicating installation of an "L" electronics facility similar to that found associated with Launch Area D-2 at Tyuratam Missile Test Center. Another portion of the requirement requested data on Launch Area F at the Plesetsk ICBM Complex.

2. Close examination of Tyuratam Complex D has revealed that a subtle difference exists between Launch Area D-1 and D-2. This difference, undetected until recently, consists of a variation of 15 degrees in the azimuth along which the silo doors move when opening and closing. This also indicates a difference of 15 degrees in the loading azimuth between D-1 and D-2. In the case of D-1 the loading azimuth and azimuth of door movement are 335 degrees while at D-2 they are 350 degrees. Both D-1 and D-2 have the same site orientation of 035 degrees. This azimuth is that of a perpendicular to an imaginary line connecting the centers of all three silos.

3. All 23 deployed Type III A launch sites were examined for evidence of construction of an "L" electronics facility and the azimuth of the silo door movement was determined for all of the sites. No evidence of construction of an "L" was identified and all except two of the sites were found to have silo door movement similar to that at Tyuratam D-1. The other sites, Drovyanaya Launch Areas E and F were found to have door movement similar to that at Tyuratam D-2. Drovyanaya Launch Area B has a site orientation of 175 degrees and a loading azimuth of 115 degrees resulting in a difference of 060 degrees. This is similar to the difference of 060 degrees between site and loading azimuths at Tyuratam D-1 and 20 other deployed Type III A sites. Launch Areas E and F at Drovyanaya have site orientation of 030 degrees and a loading azimuth of 345 degrees resulting in a difference between azimuths of 045 degrees. This is similar to the 045 degree difference between site and loading azimuths observed at Tyuratam D-2.

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Included as attachment 1 to this memorandum is a listing of loading azimuths and site orientations of all SS-7/9 ICBM launch sites, both soft and hard.

4. Launch Area F at the Plesetsk ICBM Complex was in a late stage of construction when first observed in June 1964. Construction had not yet started in August 1963, the date of the last previous coverage of the area. The azimuth along the long axis of the pads at this site is 110 degrees. For a further description of facilities at this installation see NFIC/R-884/64, TCS-8426/64, October, 1964.

5. The following statements are in answer to other specific comparisons requested in your requirement.

(a) There is no similarity between support facilities at Plesetsk F and those at Tyuratam Launch Complex G. The support at Plesetsk F consists of only a few buildings while that at Complex G is much more extensive. See NFIC/R-334/63, December 1963 for a description of the support facilities at Tyuratam Complex G.

(b) As of this date no high frequency antenna arrays have been positively identified at the Plesetsk ICBM Complex.

(c) The pads at Plesetsk F are much smaller than the pad at Tyuratam Launch Area B-3. Although both areas consist of flat, elongated road served pads, the pad at B-3 is almost twice as large as the ones at Plesetsk F.

6. The photo analyst on this project is [redacted] who may be contacted [redacted] should you have any further question concerning this project.

7. This project is considered to be complete.

Enclosure: (referenced above)
One tabulation of all ICBM azimuths
(CIA/FID/MEB-P-112/65)

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CIA/PID/MEB-P-112/65
Attachment to:
TCS 2317/65
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<u>COMPLEX</u>	<u>LAUNCH AREA</u>	<u>TYPE</u>	<u>LOADING AZIMUTH</u>	<u>SITE ORIENTATION</u>	<u>AZIMUTH TO USA</u>
Drovyannaya	A	IIB	020	020	005 to 045
	B	IIIA	115	175	
	C	IID	020	020	
	D	IID	020	020	
	E	IIIA	345	030	
	F	IIIA	345	030	
Gladkaya	A	IID	005	005	350 to 030
	B	IID	005	005	
	D	IIIA	305	005	
Itatka	A	IIB	010	010	340 to 020
	B	IIB	010	010	
	C	IID	010	010	
Kostroma	A	IIB	295	295	310 to 350
	B	IIB	295	295	
	C	IIB	295	295	
	D	IIB	295	295	
	E	IIIA	290	230	
	F	IID	295	295	
	G	IID	295	295	
Novosibirsk	A	IIB	005	005	340 to 020
	B	IIIA	005	065	
	C	IIIA	005	065	
	D	IID	005	005	
	E	IID	005	005	
Olovyannaya	A	IIIA	000	060	000 to 040
	B	IIIA	000	060	
	C	IIIA	000	060	
Perm	A	IIB	315	315	320 to 000
	B	IIB	315	315	
	C	IIB	315	315	
	D	IID	315	315	
	E	IID	315	315	
	F	IIIA	310	010	
Plesetsk	A	IIA	330	330	310 to 350
	B	IIB	330	330	
	C	IIIA	235	295	

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Shadrinsk	A	IIIA	000	060	325 to 005
	B	IIIA	000	060	
	C	IIIA	000	060	
Svobodnyy	A	IIB	030	030	015 to 055
	B	IIB	030	030	
	C	IIB	030	030	
	D	IID	030	030	
	E	IID	030	030	
	F	IID	030	030	
	G	IIIA	120	180	
	H	IID	030	030	
Teykovo	A	IIB	295	295	310 to 350
	B	IIB	295	295	
	C	IIB	295	295	
	D	IID	295	295	
	E	IID	295	295	
	F	IID	295	295	
Tyuratam	C	IIB and D	000	000	035 to 045*
	D-1	IIIA	335	035	
	D-2	IIIA	350	035	
Verkhnyaya Salda	A	IIB	345	345	325 to 005
	B	IIA	345	345	
	C	IIA	345	345	
	D	IIB	345	345	
	E	IIB	345	345	
	F	IIIA	345	045	
	G	IIIA	345	045	
	H	IID	345	345	
	I	IID	345	345	
Yedrovo	A	IIB	290	290	305 to 345
	B	IIB	290	290	
	C	IID	290	290	
	D	IID	290	290	
	E	IIIA	330	030	
	F	IID	290	290	
	G	IID	290	290	
	I	IIIA	330	030	

*Azimuth to Kamchatka impact area.

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Yoshkar Ola

A	IIB	335	335	320 to 000
B	IIB	335	335	
C	IIB	335	335	
D	IID	335	335	
E	IID	335	335	
F	IID	335	335	

Yurya

A	IIA	340	340	320 to 000
B	IIA	340	340	
C	IIB	340	340	
D	IIB	340	340	
E	IIIA	320	020	
F	IIB	340	340	
G	IIIA	320	020	
H	IID	340	340	
I	IID	340	340	
J	IID	340	340	
K	IIIA	320	020	

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